

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number
WO 03/103771 A1

- (51) International Patent Classification⁷: **A61P 27/06**, G01N 33/483, A61K 31/192, 31/196, 38/17 (74) Agent: **F B RICE & CO**; 605 Darling Street, Balmain, NSW 2041 (AU).
- (21) International Application Number: **PCT/AU03/00706** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: **6 June 2003 (06.06.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data: **PS 2847** **7 June 2002 (07.06.2002)** **AU** (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **UNIVERSITY OF TECHNOLOGY, SYDNEY [AU/AU]**; 1 Broadway, Broadway, New South Wales 2007 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **MARTIN, Donald, Keith [AU/AU]**; 25 Iome Avenue, Killara 2071, New South Wales (AU). **MARKHOTINA, Natalya [RU/AU]**; 26 Nicholson Street, Woolloomooloo, NSW 2011 (AU).

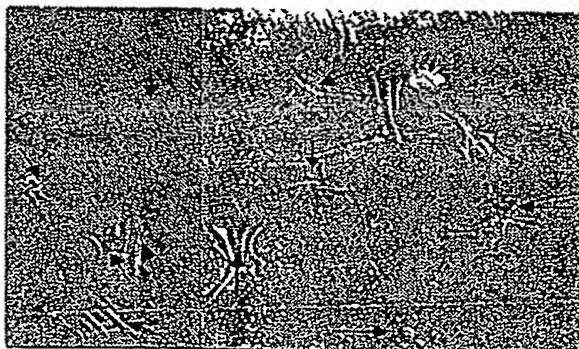
Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **NOVEL SCREENS TO IDENTIFY AGENTS THAT MODULATE RETINAL BLOOD VESSEL FUNCTION AND PERICYTE FUNCTION AND DIAGNOSTIC AND THERAPEUTIC APPLICATION THEREFOR**

Phase-contrast micrograph of pericytes contracting a silicone rubber substrate



(57) Abstract: The present invention provides methods for determining or identifying compounds that modulate the function of an isolated retinal pericyte or blood vessel, wherein a change in the contractile state of said pericyte or blood vessel is determined in the presence of a test compound, said change indicating that the test compound modulates the function of pericytes and/or blood vessels.

WO 03/103771 A1